



## PATENT ABSTRACTS OF JAPAN

(11) Publication number : **2000-034589**

(43) Date of publication of application : **02.02.2000**

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(51) Int.CI.

**C25B 3/00**

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(21) Application number : **11-174637**

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(22) Date of filing : **21.06.1999**

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(30) Priority

Priority number : **98 19827325** Priority date : **19.06.1998** Priority country : **DE**

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### **(54) METHOD FOR ELECTROCHEMICALLY REACTING ORGANIC SUBSTRATE IN ELECTROLYTIC CELL**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide the electrolysis, in which a solid polymer electrolyte technology is applied and the current density can be maintained in a constant value for a relatively long period of time without increasing cell voltage.

**SOLUTION:** The electrochemical reaction is conducted in an electrolytic cell which has a solid electrolyte comprising one or more layers of ion exchange membranes superposed in the up-and-down direction and has a cathode and an anode which are brought into contact directly with the solid electrolyte, using an electrolytic solution, which is an organic solution substantially containing no electrically conductive salt, at the temp. of the boiling point of the electrolytic solution or a temp. lower by 0-5°C than the boiling point.

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EGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's  
decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of  
rejection]

[Date of extinction of right]

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